Pelletized Activated Carbon (High Performance)
Technical Data Sheet (TDS)

1. Product Description

Pelletized Activated Carbon (PAC) is a cylindrical extruded carbon produced from premium coconut shell and coal feedstocks via high-temperature steam activation. These pellets offer uniform size, large surface area, high mechanical strength, and excellent adsorption capacity. Designed mainly for air and gas purification, VOC removal, odor control, and catalyst support applications. Available pellet sizes: 1.5 mm, 2 mm, 3 mm, 4 mm, 6 mm, 8 mm (customizable on request).

2. Typical Physical & Chemical Properties

Technical Specification 1

Parameter	Unit	Specification	Test Method
CCl_4 adsorption capacity	wt.%	> 60	ASTM D3467
Iodine number	mg/g	≥ 1100	ASTM D4607
Moisture	wt.%	≤ 5	ASTM D2867
Apparent/Bulk density	kg/m³	420 ± 30	ASTM D2854
Crushing strength	kg	≥ 4	ASTM D4179
Ash	wt.%	≤ 5	ASTM D2866
Ball pan hardness	No	≥ 95	ASTM D3802

Technical Specification 2

Parameter	Unit	Specification	Test Method
CCl_4 adsorption capacity	wt.%	> 50	ASTM D3467
Iodine number	mg/g	≥ 1000	ASTM D4607
Moisture	wt.%	≤ 5	ASTM D2867
Apparent/Bulk density	kg/m³	420 ± 30	ASTM D2854
Crushing strength	kg	≥ 4	ASTM D4179

Ball pan hardness	No	≥ 95	ASTM D3802
Ash	wt.%	≤ 5	ASTM D2866
BET surface area	m^2/g	≥ 1000	ASTM D6556

Technical Specification 3

Parameter	Unit	Specification	Test Method
CCl_4 adsorption capacity	wt.%	> 40	ASTM D3467
Iodine number	mg/g	≥ 750	ASTM D4607
Moisture	wt.%	≤ 5	ASTM D2867
Apparent/Bulk density	kg/m^3	470 ± 30	ASTM D2854
Crushing strength	kg	≥ 4	ASTM D4179
Ball pan hardness	No	≥ 95	ASTM D3802
Ash	wt.%	≤ 12	ASTM D2866

Technical Specification 4

Parameter	Unit	Specification	Test Method
CCl_4 adsorption capacity	wt.%	> 60	ASTM D3467
Iodine number	mg/g	≥ 1100	ASTM D4607
Moisture	wt.%	≤ 5	ASTM D2867
Apparent/Bulk density	kg/m^3	420 ± 30	ASTM D2854
Crushing strength	kg	≥ 4	ASTM D4179
Ball pan hardness	No	≥ 95	ASTM D3802
Ash	wt.%	≤ 5	ASTM D2866
BET surface area	m^2/g	≥ 1100	ASTM D6556

Technical Specification 5

Parameter	Unit	Specification	Test Method
CCl_4 adsorption capacity	wt.%	> 60	ASTM D3467
Iodine number	mg/g	≥ 1300	ASTM D4607
Moisture	wt.%	≤ 5	ASTM D2867
Apparent/Bulk density	kg/m^3	420 ± 30	ASTM D2854

Crushing strength	kg	≥ 4	ASTM D4179
Ball pan hardness	No	≥ 95	ASTM D3802
Ash	wt.%	≤ 5	ASTM D2866
BET surface area	m^2/g	≥ 1300	ASTM D6556

3. Applications

- Air and gas purification systems
- VOC and solvent recovery processes
- Odor control and deodorization
- Industrial exhaust emission treatment
- Catalyst carrier or impregnated media base
- Protective filtration and adsorption units

4. Packaging & Storage

Standard packaging: 25 kg PE-lined woven bags; 500 kg / 1000 kg jumbo bags; or as per customer's specification. Store in a dry, ventilated place away from oxidizers and moisture. Avoid direct sunlight and strong mechanical impact. Keep sealed to preserve adsorption capacity.

5. Quality & Compliance

Manufactured under ISO 9001 certified system and tested according to ASTM, JIS, and AWWA standards.

6. Remark

The data shown above represent typical properties and are provided for reference only. Actual product performance may vary depending on raw materials and process conditions. Henan CarbonFresh Activated Carbon Co., Ltd. reserves the right to make technical adjustments without prior notice.

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